

SEVERE LOCAL STORMS, JANUARY, 1932

[The table herewith contains such data as have been received concerning severe local storms that occurred during the month. A revised list of tornadoes will appear in the Annual Report of the Chief of Bureau]

| Place | Date | Time | Width of path (yards) | Loss of life | Value of property destroyed | Character of storm | Remarks | Authority |
|--|-------|-------------|-----------------------|--------------|-----------------------------|---------------------------------|--|---|
| Grand Rapids, Mich. | 1 | | | | | Glaze | Considerable damage to telephone, electric, and power lines. | Official, U. S. Weather Bureau. |
| Eldridge (near), Tex. | 11 | 2:30 p. m. | 50 | 2 | \$2,000 | Tornado | 4 small houses wrecked; implements damaged; 1 person injured. | Do. |
| Hockley (near), Tex. | 11 | 3:30 p. m. | | | 30,000 | do | 4 buildings demolished, several damaged; poultry killed; telephone lines broken; several persons injured. | Do. |
| Port Angeles, Wash. | 11 | | | | 15,000 | Wind | 7 fishing boats wrecked and a tug sunk. | Do. |
| Montana | 11 | | | | 90,000 | do | Damage confined chiefly to buildings, fences, signboards and trees; communication services interrupted; greatest destruction in southern division. | Do. |
| Hamilton, Miss., and vicinity. | 12 | 4:30 p. m. | | 3 | 25,000 | Probably tornado | 5 homes destroyed and practically all other buildings damaged; 30 persons injured. | Official, U. S. Weather Bureau, and Montgomery Advertiser (Ala.). |
| Murfreesboro, Tenn. | 12 | 7:30 p. m. | | | | Wind | Trees uprooted; signboards blown down; warehouse unroofed. | Official, U. S. Weather Bureau. |
| Alabama (west-central) | 12 | | | 10 | 65,000 | Tornado | Many homes demolished; livestock killed; telephone service impaired. | Official, U. S. Weather Bureau, and Montgomery Advertiser (Ala.). |
| Alexander and Pulaski Counties to Richland and Lawrence Counties, Ill. | 12 | | | | 34,000 | Wind | Wire service interrupted; roofs, plate glass, signs, and light buildings damaged; 2 persons injured. | Official, U. S. Weather Bureau. |
| Canyon City, Colo. (Wolf Park). | 12 | | | | 1,000 | do | House wrecked; garage blown over. | Do. |
| Chickasaw, Simpson, and Forrest Counties, Miss. | 12 | | | | | High winds and thunder-squalls. | Character of damage not reported. | Do. |
| Indiana | 12 | P. m. | | | 10,600 | Wind | Buildings, smokestacks, and power lines damaged. | Do. |
| Millbrook, Ala., and vicinity. | 12 | | | | 12,000 | Tornado | Many homes and other buildings destroyed or damaged; poultry killed. | Official, U. S. Weather Bureau, and Montgomery Advertiser (Ala.). |
| Columbus, Ohio, and vicinity. | 13 | | | | | Wind | Damage chiefly to roofs, windows, wires, and trees. | Official U. S. Weather Bureau. |
| Eaton (near), Tenn. | 14 | 5:30 p. m. | | 10 | 75,900 | Tornado | 9 substantial buildings wrecked; several persons injured; path 8 miles long. | Do. |
| Grand Rapids, Mich. | 14-15 | | | | 6,000 | Thunderstorms | Dairy barn and contents destroyed by lightning; 3 horses killed. | Do. |
| Columbus, Ohio | 26 | 10:30 p. m. | 20 | | 3,500 | Probably tornado | Buildings wrecked or damaged; billboards demolished; 1 person hurt; path about 400 yards long. | Do. |
| Evansville, Ind. | 26 | | | | 2,000 | Wind | Some damage to property. | Do. |
| New York City, N. Y. | 27 | | | | | do | Signs, windows, and trees damaged; 10 persons injured. | Do. |

RIVERS AND FLOODS

By MONTROSE W. HAYES

[In charge River and Flood Division]

There were floods in January in the South Atlantic and Gulf States, in the Ohio Basin, and in the lower Mis-

issippi Valley. In parts of Iowa, Missouri, and Oregon there were minor overflows of a local character. Some of the floods had not begun to recede at the end of January, and information concerning the others is not complete. A discussion of them will, therefore, appear in a later issue of the REVIEW.

WEATHER OF THE ATLANTIC AND PACIFIC OCEANS

[The Marine Division, W. F. McDONALD in charge]

NORTH ATLANTIC OCEAN

By F. A. YOUNG

Pressure.—As shown by Table 1, the average pressure at Reykjavik, Iceland, was 0.44 below normal, which indicates that the Icelandic Low was unusually well developed, although during the last few days of the month there was an intrusion of high pressure in this region.

Along the coast of northern Europe, cyclonic conditions prevailed during the greater part of the first half of the month, while comparatively high barometric readings were the rule during the last decade, and the average pressure was not far from normal.

The North Atlantic HIGH was fairly well developed from the 4th to 8th, 13th to 17th, and 26th to 28th, while, as shown by Table 1, the average at Horta for the month is slightly below normal and at Madeira considerably above, indicating that the crest of this HIGH was some distance southeast of its usual position.

The daily barometric readings at Belle Isle and Halifax show the usual rapid changes that are to be expected in winter in that region, while at both of these stations there was a slight positive departure, for the month as a whole.

TABLE 1.—Averages, departures, and extremes of atmospheric pressure (sea level) at selected stations for the North Atlantic Ocean and its shores, January, 1932

| Stations | Average pressure | Departure | Highest | Date | Lowest | Date |
|--|------------------|-------------|---------------|------|---------------|------|
| | <i>Inches</i> | <i>Inch</i> | <i>Inches</i> | | <i>Inches</i> | |
| Julianehaab, Greenland ¹ | 29.44 | (?) | 30.00 | 29 | 28.78 | 13 |
| Reykjavik, Iceland ¹ | 29.22 | -0.44 | 30.33 | 30 | 28.23 | 15 |
| Lerwick, Shetland Islands ¹ | 29.69 | -0.01 | 30.68 | 28 | 28.76 | 6 |
| Valencia, Ireland ¹ | 29.98 | +0.08 | 30.81 | 27 | 28.81 | 10 |
| Lisbon, Portugal ¹ | 30.36 | +0.21 | 30.53 | 3 | 29.80 | 11 |
| Madeira ¹ | 30.27 | +0.17 | 30.44 | 15 | 29.96 | 25 |
| Horta, Azores ¹ | 30.12 | -0.04 | 30.38 | 13 | 29.75 | 3 |
| Belle Isle, Newfoundland ¹ | 29.82 | +0.02 | 30.22 | 27 | 28.96 | 31 |
| Halifax, Nova Scotia ¹ | 30.06 | +0.08 | 30.70 | 12 | 29.32 | 28 |
| Nantucket ¹ | 30.10 | +0.06 | 30.61 | 11 | 29.35 | 3 |
| Hatteras ¹ | 30.20 | +0.06 | 30.56 | 31 | 29.63 | 9 |
| Bermuda ¹ | 30.22 | +0.06 | 30.54 | 13 | 29.78 | 5 |
| Turks Island ¹ | 30.10 | +0.05 | 30.20 | 13 | 29.90 | 9 |
| Key West ¹ | 30.11 | +0.01 | 30.29 | 31 | 29.86 | 1 |
| New Orleans ¹ | 30.13 | 0.00 | 30.53 | 31 | 29.68 | 29 |
| Cape Gracias, Nicaragua ¹ | 29.93 | -0.05 | 29.98 | 13 | 29.88 | 1 |

¹ All data based on a. m. observations only, with departures computed from best available normals related to time of observations.

² No normal available.

³ And on other date or dates.

⁴ Corrected 24-hour means, based on more than 1 observation daily.

Charts VIII, IX, X, and XI, show the conditions on the 12th, 17th, 27th, and 30th, respectively, when the severest storms of the month occurred.